

## CLAIMS

What is claimed is:

1           1.       An information handling system having pin coded connectors for power source  
2 connection to power supplies, said system comprising:

3                   information handling equipment;

4                   a power distribution board (PDB) having pin coded connectors adapted for  
5 coupling to at least one modular power supply, wherein the pin coded connectors are  
6 coupled to said information handling equipment such that the at least one modular power  
7 supply powers said information handling equipment; and

8                   a plurality of conductive layers in said PDB, wherein selected ones of said  
9 plurality of conductive layers couple the pin coded connectors to at least power source.

1           2.       The information handling system according to claim 1, wherein the at least one  
2 power source is selected from the group consisting of alternating current (AC) and direct  
3 current (DC).

1           3.       The information handling system according to claim 2, wherein the AC power  
2 source is from about 110 to 130 volts AC.

1           4.       The information handling system according to claim 2, wherein the AC power  
2 source is from about 210 to 250 volts AC.

1           5.       The information handling system according to claim 2, wherein the DC power  
2 source is about 48 volts DC.

1           6.     The information handling system according to claim 1, wherein each of the pin  
2 coded connectors have connections designated to at least one power source.

1           7.     The information handling system according to claim 6, wherein some of the  
2 connections of the pin coded connectors are common for either the AC or DC power sources.

1           8.     The information handling system according to claim 2, wherein at least one of the  
2 plurality of conductive layers is common for either the AC or DC power sources.

1           9.     The information handling system according to claim 6, further comprising cutouts  
2 in said PDB between some of the connections of the pin coded connectors.

1           10.    The information handling system according to claim 9, wherein the cutouts are  
2 sized to meet safety requirements for power source voltage isolation.

1           11.    The information handling system according to claim 6, wherein said plurality of  
2 conductive layers couples the pin coded connectors to other information handling equipment  
3 connectors on said PDB.

1           12.    The information handling system according to claim 1, wherein the at least one  
2 modular power supply plugs into a respective one of the pin coded connectors on said PDB.

1           13.    An apparatus having at least one pin coded connector for coupling at least one  
2 power supply to at least one power source, comprising:

3                   a power distribution board (PDB) having at least one pin coded connector adapted  
4                   for coupling to at least one power supply; and

5 a plurality of conductive layers in said PDB, wherein selected ones of said  
6 plurality of conductive layers couple the at least one pin coded connector to at least  
7 power source.

1 14. The apparatus according to claim 13, wherein said at least one pin coded  
2 connector has connections designated to at least one power source.

1 15. The apparatus according to claim 14, wherein different connections of the at least  
2 one pin coded connector are used for different power sources.

1 16. The apparatus according to claim 14, wherein said at least one pin coded  
2 connector has connections that are common for different power sources.

1 17. The apparatus according to claim 14, further comprising cutouts in said PDB  
2 between some of the connections of the at least one pin coded connector.

1 18. The apparatus according to claim 17, wherein the cutouts are sized to meet safety  
2 requirements for power source voltage isolation.

1 19. The apparatus according to claim 14, wherein some of said plurality of conductive  
2 layers are common for different power sources.

1 20. The apparatus according to claim 14, wherein some of the connections are  
2 common for the different power sources.